

AMENDMENTS TO THE CLAIMS

1. (*Currently Amended*) A channel switching apparatus of a digital television, for displaying a next channel icon on a screen when a current channel is switched to a next channel by a user, comprising:

a signal processing unit for receiving a broadcast signal, and performing a digital signal processing thereon;

a CPU for searching a pertinent channel icon by accessing a storing unit storing a channel icon corresponding to a next channel of the digital broadcast signal selected by a user;

an icon display unit for displaying the channel icon searched by the CPU on a screen; and

the storing unit for storing each designated channel icon corresponding to each received broadcast channel,

wherein the next channel icon is displayed during a gap in the channel switching and represents the next channel, and ~~selected by the user~~

wherein the storing unit comprises a main memory unit for storing program data and channel icon set so as to represent a received broadcast signal in a lookup table format, and the main memory unit sets a diagram or character representing each broadcast station, or a certain diagram or character in accordance with a received broadcast signal selected by a user as a channel icon, and stores it in a lookup table format.

2. (Previously Presented) The channel switching apparatus of the digital television according to claim 1, wherein the signal processing unit comprises:

a digital signal processor unit for processing the received broadcast signal into a digital signal and outputting it, and

an analog signal processor unit for performing analog-signal-processing on the received broadcast signal.

3. (Currently Amended) The channel switching apparatus of the digital television according to claim 1, wherein the storing unit further comprises:

~~a main memory unit for storing program data and channel icon set so as to represent a received broadcast signal as a lookup table format, and~~

an auxiliary storage unit for storing data for operating a program.

4. (Canceled)

5. (Currently Amended) A channel switching method of a digital television, comprising:

judging whether a channel up/down key or a channel number key is inputted;

inputting the channel up/down key or the channel number key;

searching a channel selected by the channel up/down key or the channel number key;

receiving a broadcast signal corresponding to the selected channel, and
searching for a channel icon of the selected channel from a memory unit; and

displaying the channel icon of the selected channel on a screen during a gap
in channel switching,

wherein the channel icon represents a diagram or character representing
each broadcast station, or a certain diagram or character in accordance with the
received broadcast signal, the channel icon being stored in a lookup table format.

6. (Previously Presented) The channel switching method of the digital
television according to claim 5, wherein the channel switching method further
comprises:

judging whether the channel up/down key or a new channel number key for
selection of another channel is inputted; and

performing the searching, receiving, and displaying steps for the selected
another channel when the channel up/down key or the new channel number key
for selection of another channel is inputted.

7. (Previously Presented) The channel switching method of the digital
television according to claim 6, wherein the channel switching method further
comprises:

judging whether or not processing of a video signal of the current channel is finished when the channel up/down key or the new channel number key for selection of another channel is not inputted; and

displaying the video signal corresponding to the current channel when the processing of the video signal is finished.

Claims 8-15. (Canceled)